

# SHUSAKU YAMAMOTO

U.S. Patent Application S.N. 09/431,201

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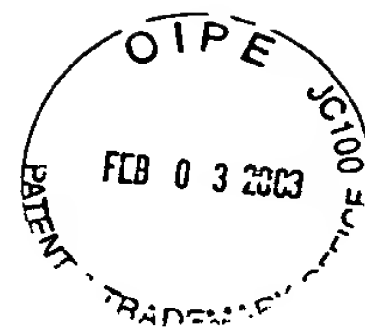
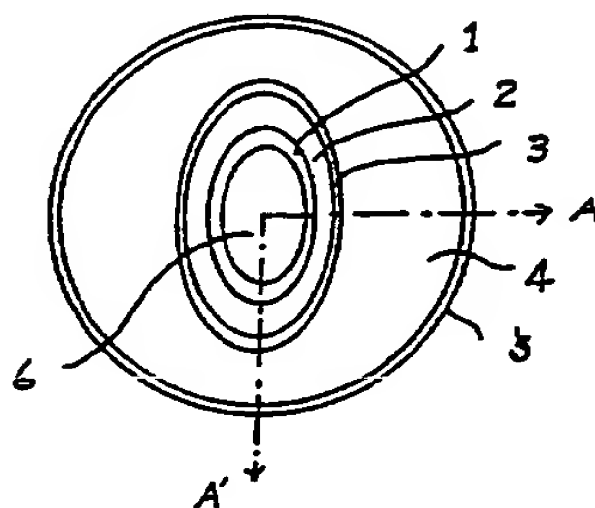


Fig. 1

(a)



- 1. Piezoelectric ceramic plate
- 2. Metal substrate
- 3. Edge member
- 4. Resin film
- 5. Frame
- 6. Additional mass

(b)

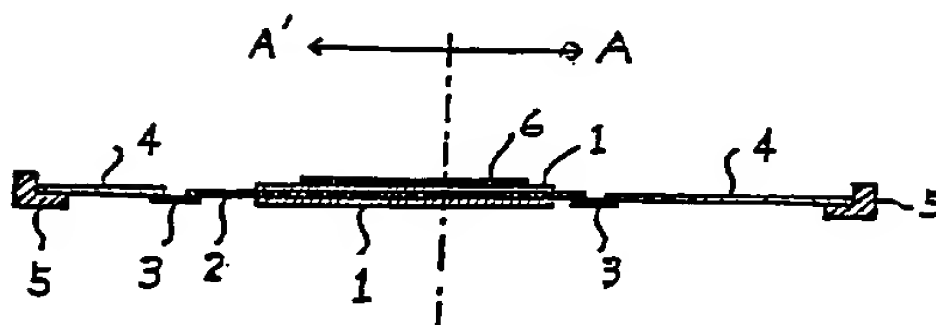
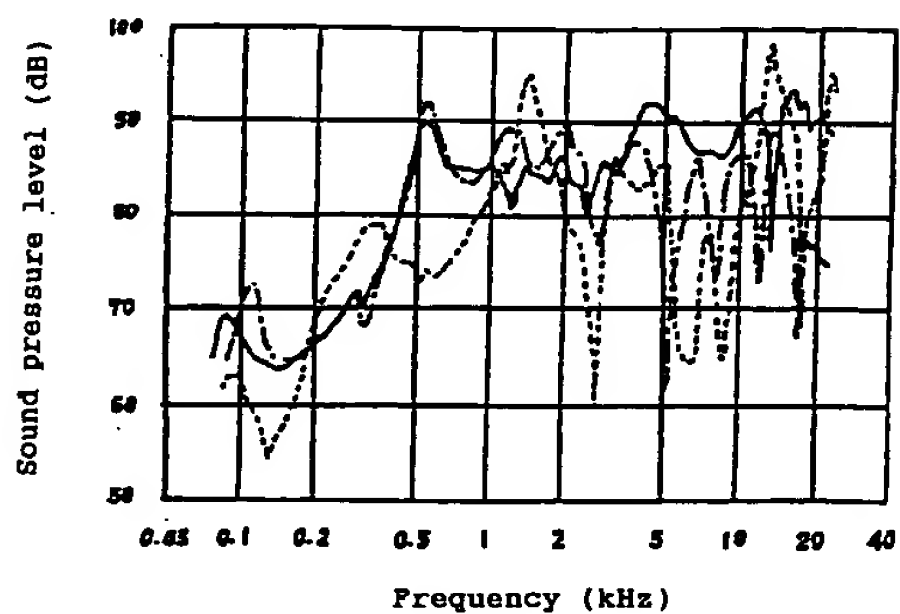


Fig. 2



- : Example
- - - : Comparative Example 1
- · - : Comparative Example 2